WE CLAIM:

1. A stimulation device comprising:

a) a housing, the housing having at least one outside wall and an opening slot through the outside wall;

b) a motor in the housing;

c) a linkage connected to the motor and reciprocating in response to rotation of the motor,

d) a projecting member connected to the linkage, the projecting member extending at least partially through the opening slot; the projecting member reciprocating through the slot; and

e) the motor and the linkage being pivotable in the housing to change the orientation of the projecting member within the opening slot.

2. The stimulation device of claim 1 further comprising a frame in the housing, the frame having a mount for the motor and a mount for the linkage, the frame being mounted for pivoting within the housing whereby the motor and linkage pivot with respect to the housing.

3. The stimulation device of claim 1 further comprising a frame in the housing, at least one shaft extending between the frame and the housing, the frame pivoting on the at least one shaft relative to the housing

4. The stimulation device of claim 3 further comprising locking means for locking the frame to the housing in one of a plurality of orientations.

5. The stimulation device of claim 3 wherein the housing has two opposed sidewalls, the device further comprising two coaxial shafts extending between the frame and the two side walls, the frame pivoting about the axis of the shafts.

6. The stimulation device of claim 5 further comprising a handle on at least one of the coaxial shafts on the outside of the housing for pivoting the frame with respect to the housing.

7. The stimulation device of claim 1 wherein the motor has an output shaft and wherein the linkage comprises a crank arm attached to the output shaft, the crank

arm having a pin, the linkage further comprising a crosshead having a lateral slot in the crosshead, the crosshead being connected to the projecting member, the pin projecting into the slot on the crosshead, and means connected to the crosshead for preventing the crosshead from pivoting.

8. The stimulation device of claim further comprising a fitting attached to the projecting member for receiving an auxiliary device for affecting the projecting member.

9. The stimulation device of claim 1 further comprising a cover over the opening slot.

10. A stimulation device comprising:

a) a housing, the housing having at least one outside wall and an opening slot through the outside wall;

b) a motor in the housing;

c) a projecting member extending at least partially through the opening slot;

d) reciprocating means operably connecting the motor and the projecting member for reciprocating the projecting member reciprocating through the slot; and

e) positioning means attached to the reciprocating means for positioning the projecting member relative to the housing.

11. The stimulation device of claim 10 wherein the positioning means comprises a frame and means for mounting the frame for pivoting within the housing.

12. The stimulation device of claim 10 further comprising locking means for locking the positioning means in one of a plurality of orientations.

13. The stimulation device of claim 10 further comprising a fitting attached to the projecting member for receiving an auxiliary device for affecting the projecting member.

14. The stimulation device of claim 10 further comprising a cover over the opening slot.

15. A stimulation device comprising:

a) a housing enclosed by at least one wall and a slot through the at least on wall;

b) a support member mounted inside the housing;

c) a projecting member mounted to the support member and extending at least partially out the slot, the support member positioning the projecting member to multiple positions along the slot;

d) a reciprocator mounted to the support member and attached to the projecting member, the reciprocator reciprocating the projecting member through the slot.